

WHAT IS CLAIMED IS:

- 1 1. A method for providing magnetic wear debris collection for an air
2 bearing of a spindle motor in a hard disk drive, comprising:
3 providing a spindle motor comprising a hub;
4 providing an air bearing for a journal bearing radially supporting the hub;
5 positioning a magnetic ring in a position proximate to the air bearing; and
6 as the motor is activated to spin the spindle and disk, accumulating debris at the
7 magnetic ring.
- 1 2. The method of claim 1 further comprising providing a mating surface to
2 the journal comprising a paramagnetic material.
- 1 3. The method of claim 1 further comprising providing a mating surface to
2 the journal comprising a ferromagnetic material.
- 1 4. The method of claim 1 further comprising providing a thrust bearing to
2 axially support the hub.
- 1 5. The method of claim 4 wherein the thrust bearing comprises an oil
2 bearing.
- 1 6. The method of claim 4 wherein the thrust bearing comprises an air
2 bearing.